



Agenda
AIRS Project Science Team Meeting
March 22-24, 2016
Caltech
Pasadena, Ca

Daily a.m. light refreshments 7:30 - 8:00

Tuesday, March 22, 2016

Session 1: Projects Status (Chair: Tom Pagano)

Joao Teixeira	NASA JPL	AIRS Status	8:00 AM
Ramesh Kakar	NASA HQ	HQ Status	8:20 AM
Denis Elliott	NASA JPL	AIRS, AMSU-A, and Aqua Status	8:40 AM
Steve Friedman	NASA JPL	Sounder SIPS Status and Plans	9:00 AM
Tom Pagano	NASA JPL	CubeSat Infrared Atmospheric Sounder (CIRAS)	9:20 AM

Session 2: Atmospheric Composition (Chair: Ed Olsen)

Edward Olsen	NASA JPL	AIRS V6 Tropospheric CO2 Retrieval QC Analysis	9:40 AM
BREAK			10:00 AM
Dejan Fu	NASA JPL	MULTI-SpEctral, MULTi-SpEcies, MULTi-Satellite (MUSES) retrieval algorithm: towards extending multi-decadal NASA EOS atmospheric composition data records	10:30 AM
Sergio DeSouza-Machado	UMBC	Dust and SO2 retrievals	10:50 AM
<i>Xun Jiang</i>	University of Houston	<i>Impact of Drought on AIRS CO2</i>	11:10 AM

Session 3: Weather and Climate (Chair: Joao Teixeira)

Bob Atlas	NOAA	NOAA's Quantitative Observing System Assessment Program	11:30 AM
Isaac Moradi	University of Maryland	Enhancing the assimilation of observations of microwave sounders in the NWP models	11:50 AM
LUNCH			12:10 PM
Eric Fetzer	NASA JPL	A Multi-Sensor Water Vapor, Temperature and Cloud Climate Data Record: Status of our MEaSURES 2012 Project	1:40 PM
Joel Susskind	NASA GSFC	Comparison of AIRS Version-6 OLR climatologies and anomaly time series with those of CERES and MERRA-2	2:00 PM
Larrabee Strow	UMBC	AIRS 13-Year Trends from Radiance Derivatives Compared to AIRS L3 and ERA Interim Reanalysis	2:20 PM
Andrew Tangborn	UMBC	Using AIRS PDFs to study climate variability 2002-2015	2:40 PM
BREAK			3:00 PM
Brian Kahn	NASA JPL	ENSO regulation of far- and mid-infrared contributions to clear-sky OLR	3:30 PM
Bin Guan	NASA JPL	Hydrometeorological Characteristics of Rain-on-Snow Events Associated with Atmospheric Rivers	3:50 PM
Joao Teixeira	NASA JPL	Discussion: Atmospheric Sounding and the NRC Decadal Survey	4:10 PM
ADJOURN			5:40 PM
DINNER			6:00 PM
OFF SITE - TBD			

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Wednesday, March 23, 2016

Session 4: AIRS Applications (Chair: Sharon Ray)

Joao Teixeira	NASA JPL	AIRS Applications	8:00 AM
Sharon Ray	NASA JPL	AIRS Applications: Status and how applications differ from traditional science	8:20 AM
Tim Stough	NASA JPL	NASA Applied Sciences: overview, resources, and training	8:40 AM
Pietro Ceccato	IRI/Columbia University	Integration of Remote Sensing in IRI's Climate and Environmental Monitoring Activities for Food Security, Human Health, and Disaster Management	9:00 AM
<i>BREAK</i>			<i>9:40 AM</i>
Chris Barnet	STC	Travels through the Jornada del Muerto: recent field campaigns and user evaluations of satellite retrievals	10:10 AM
Amir AghaKouchak	UCI	Remote Sensing of Drought: Progress, Challenges Opportunities for Improving Drought Monitoring	10:50 AM
Stephanie Granger/Ali Behrangi	NASA JPL	AIRS drought application and beyond: opportunities, challenges, and future direction	11:30 AM
<i>LUNCH</i>			<i>12:00 PM</i>
Heidar Thrastarson	NASA JPL	A Humidity-Driven Prediction System for Influenza Outbreaks	1:30 PM
Vince Realmuto	NASA JPL	Applications of AIRS to the Study of Heterogeneous Volcanic Plumes	1:50 PM
<i>Brad Zavodsky</i>	<i>NASA SPoRT</i>	<i>Applications using Satellite Sounder Products at the NASA SPoRT Center</i>	2:10 PM
Feng Ding	NASA GSFC	Expanding the GES DISC Sounder Data Usability in the Application Community	2:30 PM
Joe Roberts	NASA JPL	NASA GIBS and application support	2:50 PM
<i>BREAK</i>			<i>3:10 PM</i>
Nawajish Noman	ESRI	Addressing Scientific Data Challenges using the ArcGIS Platform	3:40 PM
ALL		Applications Discussion	4:00 PM
<i>ADJOURN</i>			<i>5:30 PM</i>

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Thursday, March 24, 2016

Session 2: Atmospheric Composition - Continued (Chair: Ed Olsen)

David Crisp	NASA JPL	Column Averaged CO2 Estimates from OCO-2	8:00 AM
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Session 5: Product Development (Chair: George Aumann)
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George Aumann	NASA JPL	Status of the AIRS Cloudy RTA	8:20 AM
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Joel Susskind	NASA GSFC	Progress towards AIRS Science Team Version-7 at SRT	8:40 AM
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Chris Barnet	STC	Status of the Community Long-term Infrared Microwave Coupled Atmospheric Product System (CLIMCAPS), formerly known as CHIMERA	9:10 AM
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Bill Irion	NASA JPL	Progress on single-footprint retrievals from AIRS	9:30 AM
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BREAK ***9:50 AM***

Larrabee Strow	UMBC	Progress with the AIRS Forward Model Maintenance	10:20 AM
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Sergio DeSouza-Machado	UMBC	Progress on AIRS Single Footprint Retrievals	10:40 AM
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Peter Kalmus	NASA JPL	Spatial-Statistical Data Fusion	11:00 AM
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Evan Manning	NASA JPL	AIRS and CrIMSS retrievals at JPL: V6.22 and beyond	11:20 AM
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Steve Friedman	NASA JPL	Defining a strategy for the next release of AIRS software	11:40 AM
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LUNCH ***12:00 PM***

Session 6: Product Validation (Chair: Eric Fetzer)

Eric Fetzer	NASA JPL	AIRS Level 2 Validation: Status of Version 6 and Plans for Candidate Version 7	1:30 PM
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Van Dang	NASA JPL	AIRS (V6.22) and CrIMSS comparison with ECMWF for temperature and water vapor profiles over different atmospheric conditions.	1:50 PM
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Sun Wong	NASA JPL	Validation of Temperature and Specific Humidity Inversions in AIRS V6.22 against Dedicated Radiosondes	2:10 PM
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Qing Yue	NASA JPL	Validation of AIRS Total Precipitable Water Vapor Over Land Using Ground-based GPS Measurements	2:30 PM
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Alexander Ruzmaikin	NASA JPL	Comparison of GSFC v6.22 retrieved products for AIRS vs CrIMSS	2:50 PM
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BREAK ***3:10 PM***

Mathias Schreier	NASA JPL	Inter-satellite comparison of AIRS and HIRS under cloudy conditions: Analysis with additional imager information	3:40 PM
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Chris Wilson	NASA JPL	Validation of AIRS Cloud Cleared Radiances Using MODIS and its Affect on Quality Control	4:00 PM
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ALL		Discussion Period	4:20 PM
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ADJOURN ***5:30 PM***

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